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Zhurnal Obshchey Khimii, Vol XIX, No 10, 1949.

THE ALKALOIDS OF LEONTICE EMERSMANNII BOE AND LEONTICE ALBERTI BOE

S. Yunusov and L. G. Scrokina (deceased), Laboratory of the Chemistry of Alkaloids, Institute of Chemistry, Academy of Sciences Urbek SSR, 4 Apr 11 1948

The parts of Leontice Eversmannii Bge which are above the ground contain their maximum quantity of alkaloids during the period of intensive growth. During this same period, the tubers coutain their minimum quantity of alkaloids.

Lesser amounts of alkaloids in the parts above ground are to be found up to the time when the leaves and stalks attain their maximum size. When these have dried, little of the alkaloids remain in them; and at this time, the mature seeds and tubers contain their greatest quantity.

An 0.87-percent yield of a mixture of alkaloids can be extracted from the leaves and stalks of the Leontice: Eversmannii Bge after blossoming. In turn, this mixture can be broken down into 50 percent leontidine, 10 percent leiontine, 5 percent d-lupanine, and 1.7 percent pachyoarpine. The tubers, where these alkaloids are accumulated simultaneously with their accumulation in the parts above the ground yielded a 0.17 percent mixture of alkaloids. This mixture then gives 50 percent leontidine, 15 percent leontine, and 5 percent leontemine.

A 1.1-percent yield is extracted from the seeds in the period of maturity. The respective yields from the parts above ground and the tubers at maturity are 0.44 percent and 0.32 percent.

In all, five alkaloids are obtained from the various parts of Leontice Ewersmannii Rge. One is a new discovery, named lecentime by these authors. It has the composition C15H240M2.

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A second alkaloid, leontidine, was extracted and its composition established as $C_{15} E_{24} O E_{2}$. It is an unsaturated alkaloid, but leoutine is saturated. Both are mono-acidic tertiary bases containing one nitrogen and one oxygen moleule in an inactive form.

A one-percent yield of alkaloids was extracted from Leontice Alberti Bge, stored at the beginning of the blossuming. Thirty seven percent of methyloytisine, alkaloid with a melting point of 180-183 degrees, and liquid bases were subsequently obtained from this mixture. The tubers contained 0.75 percent of a mixture of bases, 60 percent of which was composed of methyloytisine and a liquid alkaloid.

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